Application No.: 09/806,304 Examiner: Ernesto GARCIA

Art Unit: 3679

LIST OF CURRENT CLAIMS

Claims 1 - 84 (Canceled).

Claim 85 (New). A corner joint comprising two frame side members having

attachment channels and mitered end portions, and at least one corner piece having

two insert parts joined at connecting ends and positioned relative to one another at a

predetermined angle, each insert part configured to be received by the mitered end

portions of a respective one of the attachment channels of the side members,

the attachment channels being confined by an inner wall and an outer wall,

wherein a mutual interlocking between the corner piece and the side members

is carried out by locking means, which are formed of lips defined by a pressed-in

material part of the outer wall, which lips cooperate with notches defined on the

corner piece;

wherein each insert part includes at least one said notch comprising a

triangular shape defined by a first side against which the lip projection is positioned

which is longer than a second side over which a free end of the lip projection is

pressed in;

wherein the locking means generate a pre-stress in the form of pressure on

both side members and tension in the corner piece, the locking means comprising

material parts which are upset by compressing the material;

wherein the upset of the material parts has a useful working force on a total

mitre; and

wherein a compression force has been created in the side members ends by

pushing off both side members on the locking means;

the corner piece being equipped with inclined parts defining a pressure zone

between the locking means and a place on the inner wall which is situated deeper in

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the attachment channels, so that there can be a pressure increase between said place

and the locking means;

the insert parts being equipped with resilient members which are connected to

one another at an angle; and

the inclined parts being respectively connected to the free ends of the resilient

members:

wherein a free space or clearance free of massive material is provided on the

outside corner of the corner piece, the free space or clearance extending from the

locking means to at least the connecting end of the insert parts;

wherein the inclined parts form means to create a tensile force in the resilient

members, since the pressure in the inclined parts results in a tension in the resilient

members:

the tensile forces in the resilient members resulting in pressure forces in the

outer and inner walls, thus contributing to the rigidity and pre-stress of the obtained

mitre as a whole.

Claim 86 (New). The corner joint according to claim 85, wherein the second

side extends substantially perpendicular to the longitudinal direction of the lip

projection.

Claim 87 (New). The corner joint according to claim 86, wherein said second

side of the at least one notch over which the free end of the lip projection is pressed in

has a buckled shape.

Claim 88 (New). The corner joint according to claim 85 wherein use is made

of stop-parts which are situated behind the pressed-in lips of the locking means, the

stop parts being carried out in relief in the shape of a serration.

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Claim 89 (New). The corner joint according to claim 85, wherein each of said

insert parts includes an end portion geometrically configured in the shape of a triangle

having an apex directed along a longitudinal axis of the respective attachment

channel, each insert part defining a second leg arranged to be urged against the inner

wall of the respective attachment channel, a first leg connecting at a first end with a

first end of the second leg to form the apex and extending at an oblique angle relative

to the second leg in a direction generally proximal to the corner portion, and a third

leg extending obliquely relative to the second leg in a direction generally proximal to

the corner portion and connecting to the second leg.

Claim 90 (New). The corner joint according to claim 89, wherein the inclined

parts are a fragment of the first leg.

Claim 91 (New). The corner joint according to claim 90, wherein the corner

joint is part of a frame in which a panel is provided, the panel being wedged up by

wedges, wherein the middle of the wedges is situated in the prolongation of the

inclined parts.

Claim 92 (New). The corner joint according to claim 89, wherein each of the

insert parts includes a resilient member comprising said second leg and a connecting

leg situated in an extension of said second leg for connecting the end portions with the

connecting ends of the insert parts; the end portion and the resilient member of each

of said insert parts connected to one another at an angle so that the resilient members

provide for a reactive tensile force to the compression force which occurs in the side

members ends and which have been created by pushing off both side members on the

notch of the corner piece.

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Claim 93 (New). The corner joint according to claim 92, wherein the resilient

members are arranged to be positioned generally along the inner wall of the respective

attachment channel.

Claim 94 (New). The corner joint according to claim 92, wherein the resilient

members are arranged to be positioned generally along the inner wall of the respective

attachment channel, such that the tensile force is optimally transmitted to the inside

corner.

Claim 95 (New). The corner joint according to any one of the preceding

claims, wherein the corner piece is provided with positioning elements arranged to

guide the insert parts into the attachment channels when positioned therein; and,

wherein the positioning elements include at least one of the following

elements;

elastic press-on elements provided to push the inner sides of the insert parts

against an inner wall of the respective attachment channel;

elastically bendable flaps provided on the insert parts at a predetermined

distance from the connecting ends thereof and arranged to cooperate with the outer

wall of the respective attachment channel;

support and guiding elements provided on the corner piece in the shape of a

little leg having elastically bendable flaps arranged to cooperate with the outer wall of

the respective attachment channel.

Claim 96 (New). The joint according to claim 95, wherein the corner piece

includes a clearance generally defined at an inside corner where the insert parts

connect and having a hook shaped profile.

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